

# CapXon KM Series

# KM Series Standard 105°C

## Features

- ◆ Used in communication equipments, switching power supply, etc.
- ◆ Safety vent construction design.
- ◆ For detail specifications, please refer to Engineering Bulletin No. E102



## Specifications

[illegible]

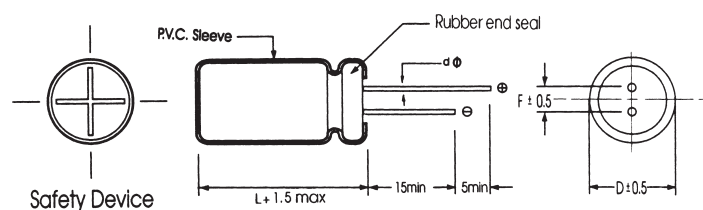
## Multiplier for Ripple Current vs. Frequency

| CAP( $\mu$ F) \ Frequency(Hz) | 50(60) | 120 | 400  | 1K   | 10K  | 50K-100K |
|-------------------------------|--------|-----|------|------|------|----------|
| CAP $\leq 10$                 | 0.8    | 1   | 1.30 | 1.45 | 1.65 | 1.70     |
| $10 < \text{CAP} \leq 100$    | 0.8    | 1   | 1.23 | 1.36 | 1.48 | 1.53     |
| $100 < \text{CAP} \leq 1000$  | 0.8    | 1   | 1.16 | 1.25 | 1.35 | 1.38     |
| $1000 < \text{CAP}$           | 0.8    | 1   | 1.11 | 1.17 | 1.25 | 1.28     |

## Multiplier for Ripple Current vs. Temperature

|                 |      |      |      |      |      |
|-----------------|------|------|------|------|------|
| Temperature(°C) | 45   | 60   | 70   | 85   | 105  |
| Multiplier      | 2.10 | 1.90 | 1.40 | 1.25 | 1.00 |

### Diagram of Dimensions:(unit:mm)



|          |     |     |     |     |     |     |     |    |
|----------|-----|-----|-----|-----|-----|-----|-----|----|
| D $\psi$ | 5   | 6.3 | 8   | 10  | 13  | 16  | 18  | 22 |
| F        | 2.0 | 2.5 | 3.5 | 5.0 | 5.0 | 7.5 | 7.5 | 10 |
| d $\psi$ | 0.5 |     |     | 0.6 |     | 0.8 |     |    |

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## Case Size

φ DxL (mm)

| WV (SV)<br>μF | 6.3<br>(8) |        | 10<br>(13) |        | 16<br>(20) |        | 25<br>(32) |        | 35<br>(44) |        |
|---------------|------------|--------|------------|--------|------------|--------|------------|--------|------------|--------|
|               | Size       | Ripple | Size       | Ripple | Size       | Ripple | Size       | Ripple | Size       | Ripple |
| 4.7           |            |        |            |        |            |        | 5x11       | 26     | 5x11       | 28     |
| 6.8           |            |        |            |        |            |        | 5x11       | 35     | 5x11       | 38     |
| 10            |            |        |            |        | 5x11       | 35     | 5x11       | 38     | 5x11       | 41     |
| 22            |            |        | 5x11       | 48     | 5x11       | 54     | 5x11       | 58     | 5x11       | 61     |
| 33            | 5x11       | 54     | 5x11       | 60     | 5x11       | 64     | 5x11       | 69     | 5x11       | 75     |
| 47            | 5x11       | 65     | 5x11       | 70     | 5x11       | 100    | 5x11       | 105    | 5x11       | 110    |
| 68            | 5x11       | 75     | 5x11       | 80     | 5x11       | 105    | 6.3x11     | 120    | 6.3x11     | 140    |
| 100           | 5x11       | 96     | 5x11       | 105    | 5x11       | 105    | 6.3x11     | 145    | 6.3x11     | 160    |
|               |            |        |            |        | 6.3x11     | 130    |            |        | 8x11.5     | 175    |
| 120           | 5x11       | 110    | 5x11       | 120    | 6.3x11     | 145    | 6.3x11     | 175    | 8x11.5     | 185    |
| 150           | 5x11       | 120    | 6.3x11     | 145    | 6.3x11     | 170    | 6.3x11     | 200    | 8x11.5     | 215    |
| 180           | 6.3x11     | 140    | 6.3x11     | 160    | 8x11.5     | 190    | 8x11.5     | 210    | 10x12.5    | 265    |
| 220           | 6.3x11     | 160    | 6.3x11     | 175    | 6.3x11     | 215    | 8x11.5     | 235    | 10x12.5    | 300    |
| 330           | 6.3x11     | 195    | 8x11.5     | 255    | 8x11.5     | 265    | 8x11.5     | 310    | 10x12.5    | 400    |
|               |            |        |            |        |            |        | 10x12.5    | 335    |            |        |
| 470           | 8x11.5     | 270    | 8x11.5     | 290    | 8x11.5     | 370    | 8x11.5     | 410    | 10x16      | 520    |
|               |            |        |            |        |            |        | 10x12.5    | 440    |            |        |
| 560           | 8x11.5     | 310    | 8x11.5     | 330    | 10x12.5    | 410    | 10x16      | 460    | 10x20      | 540    |
| 680           | 8x11.5     | 360    | 10x12.5    | 420    | 10x12.5    | 480    | 10x16      | 520    | 13x20      | 650    |
| 820           | 8x11.5     | 390    | 10x12.5    | 480    | 10x16      | 550    | 10x20      | 640    | 13x20      | 760    |
| 1000          | 10x12.5    | 430    | 10x12.5    | 520    | 10x16      | 590    | 10x20      | 710    | 13x20      | 830    |
| 1200          | 10x12.5    | 550    | 10x16      | 630    | 10x20      | 700    | 13x20      | 810    | 13x25      | 900    |
| 1500          | 10x16      | 620    | 10x16      | 770    | 10x20      | 820    | 13x20      | 900    | 16x25      | 960    |
| 1800          | 10x20      | 710    | 10x20      | 820    | 13x20      | 920    | 13x20      | 1050   | 16x25      | 1150   |
| 2200          | 10x20      | 770    | 10x20      | 860    | 13x20      | 1000   | 13x25      | 1200   | 16x25      | 1290   |
|               |            |        |            |        |            |        |            |        | 16x31.5    | 1350   |
| 2700          | 10x20      | 850    | 13x20      | 920    | 13x20      | 1080   | 16x25      | 1320   | 16x31.5    | 1480   |
| 3300          | 13x20      | 960    | 13x20      | 1100   | 13x25      | 1200   | 16x25      | 1460   | 16x35.5    | 1650   |
| 3900          | 13x20      | 1000   | 13x20      | 1280   | 16x25      | 1490   | 16x31.5    | 1670   | 18x31.5    | 1820   |
| 4700          | 13x20      | 1150   | 13x25      | 1350   | 16x25      | 1600   | 16x35.5    | 1780   | 18x35.5    | 1900   |
| 5600          | 13x25      | 1300   | 16x25      | 1490   | 16x31.5    | 1720   | 16x35.5    | 1890   | 18x35.5    | 2000   |
| 6800          | 13x25      | 1450   | 16x25      | 1670   | 16x31.5    | 1870   | 18x35.5    | 2050   |            |        |
| 8200          | 16x25      | 1520   | 16x31.5    | 1840   | 16x35.5    | 1950   | 18x35.5    | 2090   |            |        |
| 10000         | 16x25      | 1680   | 16x35.5    | 1900   | 18x35.5    | 2060   |            |        |            |        |
| 12000         | 16x31.5    | 1750   | 16x35.5    | 2050   | 18x35.5    | 2150   |            |        |            |        |
| 15000         | 16x35.5    | 2075   | 18x35.5    | 2180   |            |        |            |        |            |        |
| 18000         | 18x31.5    | 2150   | 18x35.5    | 2205   |            |        |            |        |            |        |
| 22000         | 18x41      | 2300   |            |        |            |        |            |        |            |        |

Ripple Current ( mA, rms ) at 105°C 120Hz

Radial

# CapXon KM Series

φ DxL(mm)

| WV (SV)<br>μF | 50<br>(63) |        | 63<br>(79) |        | 100<br>(125) |        | 160<br>(200) |        | 200<br>(250) |        |
|---------------|------------|--------|------------|--------|--------------|--------|--------------|--------|--------------|--------|
|               | Size       | Ripple | Size       | Ripple | Size         | Ripple | Size         | Ripple | Size         | Ripple |
| 0.1           | 5x11       | 1.3    | 5x11       | 1.3    | 5x11         | 1.9    |              |        |              |        |
| 0.22          | 5x11       | 2.9    | 5x11       | 2.9    | 5x11         | 3.4    |              |        |              |        |
| 0.33          | 5x11       | 4      | 5x11       | 4.5    | 5x11         | 5      |              |        |              |        |
| 0.47          | 5x11       | 7      | 5x11       | 7      | 5x11         | 10     | 5x11         | 11     | 5x11         | 12     |
| 1             | 5x11       | 13     | 5x11       | 13     | 5x11         | 15     | 6.3x11       | 17     | 6.3x11       | 17     |
| 2.2           | 5x11       | 20     | 5x11       | 20     | 5x11         | 21     | 6.3x11       | 25     | 6.3x11       | 25     |
| 3.3           | 5x11       | 26     | 5x11       | 28     | 5x11         | 30     | 6.3x11       | 32     | 8x11.5       | 35     |
| 4.7           | 5x11       | 32     | 5x11       | 32     | 5x11         | 35     | 6.3x11       | 35     | 8x11.5       | 50     |
| 6.8           | 5x11       | 40     | 5x11       | 40     | 6.3x11       | 47     | 8x11.5       | 56     | 10x12.5      | 63     |
| 10            | 5x11       | 48     | 5x11       | 48     | 6.3x11       | 56     | 10x12.5      | 75     | 10x12.5      | 78     |
| 22            | 5x11       | 72     | 6.3x11     | 82     | 8x11.5       | 96     | 10x16        | 105    | 10x16        | 125    |
|               |            |        |            |        |              |        |              |        | 10x20        | 130    |
| 33            | 6.3x11     | 90     | 6.3x11     | 100    | 8x11.5       | 140    | 10x20        | 170    | 13x20        | 190    |
|               |            |        |            |        | 10x12.5      | 155    |              |        |              |        |
| 47            | 6.3x11     | 115    | 8x11.5     | 140    | 10x12.5      | 170    | 13x20        | 210    | 13x20        | 220    |
| 68            | 8x11.5     | 155    | 8x11.5     | 185    | 10x16        | 240    | 13x20        | 280    | 13x25        | 300    |
| 82            |            |        |            |        |              |        |              |        | 16x25        | 360    |
| 100           | 8x11.5     | 200    | 10x12.5    | 230    | 10x20        | 280    | 13x25        | 310    | 16x25        | 345    |
| 120           | 10x12.5    | 210    | 10x16      | 255    | 10x20        | 295    | 16x25        | 350    | 16x31.5      | 360    |
| 150           | 10x12.5    | 245    | 10x16      | 270    | 13x20        | 360    | 16x25        | 470    | 16x31.5      | 480    |
| 180           | 10x12.5    | 280    | 10x16      | 310    | 13x20        | 480    | 16x25        | 550    | 16x35.5      | 550    |
| 220           | 10x16      | 360    | 10x16      | 375    | 13x20        | 520    | 16x31.5      | 580    | 16x35.5      | 520    |
|               |            |        | 10x20      | 400    |              |        |              |        | 18x31.5      | 550    |
| 330           | 10x16      | 450    | 13x20      | 580    | 16x25        | 690    | 18x35.5      | 705    | 18x35.5      | 650    |
|               | 10x20      | 470    |            |        |              |        |              |        | 18x41        | 670    |
| 470           | 10x20      | 600    | 13x20      | 690    | 16x25        | 820    | 18x41        | 860    | 22x41        | 790    |
|               | 13x20      | 650    |            |        | 16x31.5      | 860    |              |        |              |        |
| 560           | 13x20      | 660    | 13x25      | 770    | 16x35.5      | 880    |              |        |              |        |
| 680           | 13x25      | 770    | 16x25      | 880    | 16x35.5      | 920    |              |        |              |        |
|               |            |        |            |        | 18x31.5      | 950    |              |        |              |        |
| 820           | 13x25      | 850    | 16x25      | 920    | 18x35.5      | 970    |              |        |              |        |
| 1000          | 16x25      | 1000   | 16x31.5    | 1185   | 18x41        | 1200   |              |        |              |        |
| 1200          | 16x25      | 1150   | 16x35.5    | 1200   |              |        |              |        |              |        |
| 1500          | 16x31.5    | 1300   | 18x31.5    | 1350   |              |        |              |        |              |        |
| 1800          | 16x35.5    | 1480   |            |        |              |        |              |        |              |        |
| 2200          | 16x35.5    | 1530   |            |        |              |        |              |        |              |        |
| 2700          | 18x35.5    | 1590   |            |        |              |        |              |        |              |        |
| 3300          | 18x35.5    | 1750   |            |        |              |        |              |        |              |        |

Ripple Current ( mA, rms ) at 105°C 120Hz

# CapXon KM Series

φ DxL(mm)

| WV (SV)<br>μF | 250<br>(300) |        | 350<br>(400) |        | 400<br>(450) |        | 450<br>(500) |        |
|---------------|--------------|--------|--------------|--------|--------------|--------|--------------|--------|
|               | Size         | Ripple | Size         | Ripple | Size         | Ripple | Size         | Ripple |
| 0.47          | 5x11         | 12     | 6.3x11       | 13     | 6.3x11       | 14     | 6.3x11       | 14     |
| 1             | 6.3x11       | 16     | 6.3x11       | 16     | 8x11.5       | 20     | 8x11.5       | 20     |
| 2.2           | 8x11.5       | 25     | 8x11.5       | 31     | 8x11.5       | 36     | 10x12.5      | 35     |
| 3.3           | 8x11.5       | 38     | 8x11.5       | 38     | 10x12.5      | 47     | 10x12.5      | 31     |
|               |              |        |              |        |              |        | 10x16        | 40     |
| 4.7           | 8x11.5       | 46     | 10x12.5      | 52     | 10x12.5      | 65     | 10x16        | 45     |
|               | 10x12.5      | 50     |              |        |              |        |              |        |
| 6.8           | 10x12.5      | 70     | 10x12.5      | 79     | 10x16        | 90     | 10x20        | 72     |
| 10            | 10x12.5      | 82     | 10x16        | 92     | 10x20        | 125    | 10x20        | 92     |
|               | 10x16        | 88     |              |        |              |        | 13x20        | 98     |
| 22            | 10x20        | 140    | 13x20        | 160    | 13x20        | 170    | 13x25        | 180    |
|               | 13x20        | 152    |              | 170    | 13x25        | 190    |              |        |
| 33            | 13x20        | 190    | 13x25        | 200    | 13x25        | 260    | 16x25        | 210    |
|               |              |        |              | 225    |              |        |              |        |
| 47            | 13x20        | 240    | 16x25        | 260    | 16x25        | 300    | 16x31.5      | 320    |
|               |              |        |              |        | 16x31.5      | 360    | 16x35.5      | 380    |
| 56            | 13x25        | 280    | 16x25        | 300    | 16x31.5      | 400    | 16x35.5      | 380    |
| 68            | 16x25        | 355    | 16x31.5      | 320    | 16x35.5      | 480    | 18x35.5      | 470    |
|               |              |        |              |        | 18x31.5      | 500    |              |        |
| 82            | 16x25        | 370    | 16x35.5      | 350    | 18x31.5      | 520    | 18x35.5      | 480    |
| 100           | 16x31.5      | 395    | 18x35.5      | 390    | 18x35.5      | 550    | 18x41        | 560    |
| 120           | 16x35.5      | 370    | 18x35.5      | 400    | 18x35.5      | 580    | 22x41        | 650    |
|               |              |        |              |        | 18x41        | 620    |              |        |
| 150           | 16x35.5      | 460    | 18x41        | 420    | 18x41        | 650    |              |        |
| 180           | 18x35.5      | 470    | 18x41        | 430    | 18x45        | 700    |              |        |
| 220           | 18x35.5      | 650    | 22x41        | 500    |              |        |              |        |
|               | 18x41        | 700    |              |        |              |        |              |        |
| 330           | 22x41        | 780    |              |        |              |        |              |        |

Ripple Current ( mA, rms ) at 105°C 120Hz

Radial